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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Atty. Docket: ARKIN=2

In re Application of:	)	Conf. No.: 3198
	)	
Ofir ARKIN	)	Art Unit: 2616
	)	
Appln. No.: 10/580,543	)	Examiner: Not Yet Known
	)	
Filing Date: May 26, 2006	)	Washington D.C.
	)	
For: METHODS AND SYSTEMS FOR	)	November 6, 2006
COLLECTING INFORMATION	)	
RELATING TO OPERATING	)	
SYSTEMS OPERATING ON NODES)	)	
IN A COMMUNICATION NETWORK)	)	

INFORMATION DISCLOSURE STATEMENT [IDS]

Honorable Commissioner for Patents  
U.S. Patent and Trademark Office  
Customer Service Window  
Randolph Building, Mail Stop Amendment  
401 Dulany Street  
Alexandria, VA 22314

Sir:

This Information Disclosure Statement is submitted in accordance with 37 CFR §§1.97, 1.98, and it is requested that the information set forth in this statement and in the listed documents be considered during the pendency of the above-identified application, and any other application relying on the filing date of the above-identified application or cross-referencing it as a related application.

1. This IDS should be considered, in accordance with 37 CFR §1.97, as it is filed before the mailing date of a first office action on the merits or before the mailing of a first Office action after the filing of a Request for Continued Examination under 37 CFR §1.114.

2. In accordance with 37 CFR §1.98, this IDS includes a list (e.g., form BN/SB/08A/B) of all patents, publications, or other information submitted for consideration by the office, either incorporated into this IDS or as an attachment hereto.

Other than U.S. patent(s) and/or published U.S. application(s), which 37 CFR §1.98(a)(2)(ii) does not require to be filed unless specifically required by the Office, a copy of each document listed is attached.

3. Documents CU, CW, CX, CY and CZ are not in the English language. In accordance with 37 CFR §1.98(a)(3), Applicant states an English translation of each document CU, CW, CX, CY and CZ (or of the pertinent portions thereof), or a copy of an English-language abstract (or claim) is enclosed.


4. No explanation of relevance is necessary for documents in the English language (see reply to Comments 67 and 68 in the preamble to the final rules; 1135 OG 13 at 20).

5. In accordance with 37 CFR §§1.97(g) and (h), the filing of this IDS should not be construed as a representation that a search has been made or that information cited is, or is considered to be, material to patentability as defined in 37 CFR §1.56(b), or that any cited document listed or attached is (or constitutes) prior art. Unless otherwise indicated, the date of publication indicated for an item is taken from the face of the item and Applicant reserves the right to prove that the date of publication is in fact different.

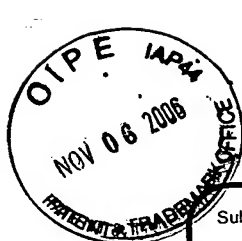
Respectfully submitted,

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 4

**Complete if Known**

Application Number	10/580,543	
Filing Date	May 26, 2006	
First Named Inventor	Ofir ARKIN	
Group Art Unit	2616	Confirmation No. 3198
Examiner Name	Not Yet Known	
Attorney Docket Number	ARKIN=2	

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	AA	US-6,807,667 B1	10-19-2004	BAR et al.	
	AB	US-6,799,195 B1	09-28-2004	THIBAUT et al.	
	AC	US-6,788,980 B1	09-07-2004	Alexander JOHNSON	
	AD	US-6,772,417 B1	08-03-2004	Hyuk-Jin KO	
	AE	US-6,697,338 B1	02-24-2004	BREITBART et al.	
	AF	US-6,628,623 B1	09-30-2003	Ariel NOY	
	AG	US-6,606,711 B2	08-12-2003	ANDREWS et al.	
	AH	US-6,604,198 B1	08-05-2003	BECKMAN et al.	
	AI	US-6,604,118 B2	08-05-2003	KLEIMAN et al.	
	AJ	US-6,576,101 B1	06-10-2003	HELLER et al.	
	AK	US-6,574,736 B1	06-03-2003	Anthony D. ANDREWS	
	AL	US-6,551,494 B1	04-22-2003	HELLER et al.	
	AM	US-6,546,553 B1	04-08-2003	Galen C. HUNT	
	AN	US-6,487,665 B1	11-26-2002	ANDREWS et al.	
	AO	US-6,469,987 B1	10-22-2002	Anil G. RIJHSINGHANI	
	AP	US-6,468,150 B1	10-22-2002	LANGDON et al.	
	AQ	US-6,457,130 B2	09-24-2002	HITZ et al.	
	AR	US-6,415,321 B1	07-02-2002	GLEICHAUF et al.	
	AS	US-6,385,724 B1	05-07-2002	BECKMAN et al.	
	AT	US-6,343,984 B1	02-05-2002	LANGDON et al.	
	AU	US-6,331,985 B1	12-18-2001	Michael H. CODEN	
	AV	US-6,324,168 B1	11-27-2001	William M. RICHARDSON	
	AW	US-6,317,844 B1	11-13-2001	Steven KLEIMAN	
	AX	US-6,249,863 B1	06-19-2001	REDFORD et al.	
	AY	US-6,219,707 B1	04-17-2001	GOODERUM et al.	
	AZ	US-6,205,122 B1	03-20-2001	SHARON et al.	
	BA	US-6,179,489 B1	01-30-2001	SO et al.	
	BB	US-6,143,164	11-07-2000	HELLER et al.	
	BC	US-6,120,676	09-19-2000	HELLER et al.	
	BD	US-6,108,702	08-22-2000	Michael WOOD	
	BE	US-6,075,776	06-13-2000	TANIMOTO et al.	
	BF	US-6,047,323	04-04-2000	Michael R. KRAUSE	
	BG	US-6,041,363	03-21-2000	Daniel H. SCHAFFER	
	BH	US-6,038,570	03-14-2000	HITZ et al.	
	BI	US-6,012,081	01-04-2000	DORN et al.	
	BJ	US-5,983,350	11-09-1999	MINEAR et al.	
Examiner Signature		Date Considered			

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 2

of

4

**Complete if Known**

Application Number	10/580,543
Filing Date	May 26, 2006
First Named Inventor	Ofir ARKIN
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Examiner Name	Not Yet Known
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U.S. PATENT DOCUMENTS					
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		Number-Kind Code <sup>2</sup> (if known)			
	BK	US-5,958,010	09-28-1999	AGARWAL et al.	
	BL	US-5,933,416	08-03-1999	SCHENKEL et al.	
	BM	US-5,926,462	07-20-1999	SCHENKEL et al.	
	BN	US-5,918,018	06-29-1999	GOODERUM et al.	
	BO	US-5,903,559	05-11-1999	ACHARYA et al.	
	BP	US-5,884,036	03-16-1999	Andrew Paul HALEY	
	BQ	US-5,872,976	02-16-1999	YEE et al.	
	BR	US-5,850,397	12-15-1998	RAAB et al.	
	BS	US-5,819,292	10-06-1998	HITZ et al.	
	BT	US-5,798,772	08-25-1998	TACHIARA et al.	
	BU	US-5,737,319	04-07-1998	CROSLIN et al.	
	BV	US-5,734,824	03-31-1998	Isaac P. CHOI	
	BW	US-5,732,086	03-24-1998	LIANG et al.	
	BX	US-5,729,685	03-17-1998	CHATWANI et al.	
	BY	US-5,727,157	03-10-1998	ORR et al.	
	BZ	US-5,710,885	01-20-1998	BONDI et al.	
	CA	US-5,684,959	11-04-1997	BHAT et al.	
	CB	US-5,684,796	11-04-1997	ABIDI et al.	
	CC	US-5,678,059	10-14-1997	RAMASWAMY et al.	
	CD	US-5,606,664	02-25-1997	BROWN et al.	
	CE	US-5,602,998	02-11-1997	ALFERNESS et al.	
	CF	US-5,581,788	12-03-1996	Daniel E. BALLARE	
	CG	US-5,508,941	04-16-1996	LEPLINGARD et al.	
	CH	US-5,465,251	11-07-1995	JUDD et al.	
	CI	US-5,432,789	07-11-1995	ARMSTRONG et al.	
	CJ	US-5,371,852	12-06-1994	ATTANASIO et al.	
	CK	US-5,339,403	08-16-1994	Thomas A. PARKER	
	CL	US-5,297,138	03-22-1994	Chuck A. BLACK	
	CM	US-5,097,469	03-17-1992	Robert H. DOUGLAS	
	CN	US-5,088,033	02-11-1992	BINKLEY et al.	
	CO	US-4,666,426	05-19-1987	Karl AIGNER	
	CP	US-2003/0212910 A1	11-13-2003	ROWLAND et al.	
	CQ	US-2003/0182598 A1	09-25-2003	MA et al.	
	CR	US-2003/0145039 A1	07-31-2003	BONNEY et al.	

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**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Number Country Code <sup>2</sup> Number <sup>2</sup> Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
	CS	WO 03/060717 A1	07-24-2003	FOUNDSTONE, INC.		
	CT	EP 1 015 979 B1	09-26-2001	LANDMARK SYSTEMS CORP.		
	CU	JP-2000-267957	09-29-2000	HITACHI LTD.		Abs
	CV	WO 98/44418 A1	10-08-1998	LANDMARK SYSTEMS CORP.		
	CW	JP-09-160856	06-20-1997	INTERNATIONAL BUSINESS MACHINES CORP (IBM)		Abs
	CX	JP-07-168737	07-04-1995	PHILIPS ELECTRON NV		Abs
	CY	JP-01-120156	05-12-1989	NEC CORP NEC SOFTWARE LTD.		Abs
	CZ	JP-63-193260	08-10-1988	NEC CORP		Abs

**NON PATENT LITERATURE DOCUMENTS /OTHER INFORMATION**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
	DA	Bruce B. LOWEKAMP et al., "Combining Active and Passive Network Measurements to Build Scalable Monitoring Systems on the Grid", <u>ACM SIGMETRICS Performance Evaluation Review</u> , Vol. 30, No. 4, pp. 19-26, 2003.	
	DB	Ofir ARKIN et al., "The Present and Future of Xprobe2: The Next Generation of Active Operating System Fingerprinting", pp. 1-35, July 2003.	
	DC	Greg TALEK, "Ambiguity Resolution via Passive OS Fingerprinting", NFR Security Inc., 2004.	
	DD	Ofir ARKIN et al., "X remote ICMP based OS fingerprinting techniques", pp. 1-36, August 2001.	
	DE	Ofir ARKIN et al., "Xprobe v23.0: A "Fuzzy" Approach to Remote Active Operating System Fingerprinting", pp. 1-20, August 2002.	
	DF	Bruce B. LOWEKAMP et al., "Topology Discovery for Large Ethernet Networks", Published at SIGCOMM, August 27-31, 2001, San Diego, California, USA.	
	DG	Yuri BREITBART et al., "Topology Discovery in Heterogeneous IP Networks: The <i>NetInventory</i> System", <u>IEEE/ACM Transactions on Networking</u> , Vol. 12, No. 3, June 2004.	
	DH	Internal Assigned Numbers Authority (IANA.ORG) Application Media Types, "Port Numbers", last updated June 8, 2006.	

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Sheet	4
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**First Named Inventor**

**Ofir ARKIN**

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Confirmation No. 3198

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